

WHAT IS CLAIMED IS:

1. A speed control circuit of a brushless DC fan motor which is driven by a drive circuit, and controlled in the rotational speed thereof by controlling the voltage of a control input terminal of the drive circuit comprising:

a differential amplifier in which the voltage signal for controlling the speed is inputted in a first input terminal and the reference voltage signal is inputted in a second input terminal,

wherein the differential amplifier is linear in the input-output characteristic, and can set a rise characteristic of a desired gradient, and give the voltage signal from the output terminal of the differential amplifier to the control input terminal of the drive circuit.

2. A speed control circuit of a brushless DC fan motor according to Claim 1, wherein the reference voltage signal of the differential amplifier is given from a resistance voltage division point of a resistance voltage divider connected between a power source for driving the circuit and the ground, and the resistance of the resistance voltage divider is set to be an appropriate value in order to obtain a desired minimum rotational speed.

3. A speed control circuit of a brushless DC fan motor according to Claim 1 or Claim 2, wherein the voltage signal for controlling the speed is inputted in the first input terminal of the differential amplifier via a first resistor for setting the amplification degree, a second resistor for setting the amplification degree is connected between the first input terminal and

the output terminal of the differential amplifier, a desired amplification degree is obtained for the differential amplifier by suitably setting the resistance of the first and second resistors for setting the amplification degree, and a desired rate of change in the rotational speed is set.

4. A speed control circuit of a brushless DC fan motor according to any one of Claims 1 to 3, wherein the first input terminal and the second input terminal of the differential amplifier are grounded individually via a capacitor.
5. A speed control circuit of a brushless DC fan motor according to any one of Claims 1 to 4, wherein the voltage signal from the output terminal of the differential amplifier is given to the control input terminal of the drive circuit via a resistor for finely adjusting the rotational speed.
6. A speed control circuit of a brushless DC fan motor according to any one of Claims 1 to 5, wherein a voltage signal transmission line from the output terminal of the differential amplifier to the control input terminal of the drive circuit is grounded at a desired point via a capacitor.